

Product datasheet for **SC332048**

SPHK2 (NM_001243876) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SPHK2 (NM_001243876) Human Untagged Clone
Tag: Tag Free
Symbol: SPHK2
Synonyms: SK-2; SK 2; SPK-2; SPK 2
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332048 representing NM_001243876.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGATCTCTGAAGCTGGGCTGTCCTTCAACCTCATCCAGACAGAACGACAGAACCACGCCGGGAGCTG
 GTCCAGGGGCTGAGCCTGAGTGAGTGGGATGGCATCGTCACGGTCTCGGGAGACGGGCTGCTCCATGAG
 GTGCTGAACGGGCTCCTAGATCGCCCTGACTGGGAGGAAGCTGTGAAGATGCCTGTGGGCATCCTCCCC
 TGGCGCTCGGGCAACGCGCTGGCCGGAGCAGTGAACCAGCACGGGGGATTTGAGCCAGCCCTGGGCCTC
 GACCTGTTGCTCAACTGCTCACTGTTGCTGTGCCGGGTGGTGGCCACCCACTGGACCTGCTCTCCGTG
 ACGCTGGCCTCGGGCTCCCGCTGTTTCTCCTTCTGTCTGTGGCCTGGGGCTTCGTGTCAGATGTGGAT
 ATCCAGAGCGAGCGCTTACAGGGCCTTGGGCAGTGCCTCGCTTACACTGGGCACGGTGTGGCCTCGCC
 AACTGCACACCTACCGGGACGCTCTCTACCTCCCCGCCACTGTGGAACCTGCCTCGCCACCCCT
 GCCCATAGCCTGCCTCGTCCAAGTCCGAGCTGACCTAACCCAGACCCAGCCCGCCCATGGCCAC
 TCACCCCTGCATCGTTCTGTGTCTGACCTGCTTCCCTGCCCGAGCCTGCCCTGGCCTCTCCTGGC
 TCGCCAGAACCCCTGCCATCCTGTCCCTCAACGGTGGGGGCCAGAGCTGGCTGGGGACTGGGGTGGG
 GCTGGGGATGCTCCGCTGTCCCCGACCCACTGCTGTCTTCACTCCTGGCTCTCCAAGGCAGCTCTA
 CACTCACCCGTCTCCGAAGGGGCCCCGTAATTCCTCCATCCTCTGGGCTCCCACTTCCACCCCTGAT
 GCCCGGTAGGGCCTCCACTGCGGCCCGCCGACCACCTGCTGCCTCCGCTGGGCACCCCGCTGCC
 CCAGACTGGGTGACGCTGGAGGGGACTTTGTGCTCATGTTGGCCATCTCGCCAGCCACCTAGGCCT
 GACCTGGTGGCAGCTCCGCATGCGCGCTTCGACGACGGCCTGGTGCACCTGTGCTGGGTGCGTAGCGGC
 ATCTCGCGGGCTGCGCTGCTGCGCCTTTTCTTGGCCATGGAGCGTGGTAGCCACTTACGCTGGGCTGT
 CCGCAGCTGGGCTACGCCCGGCCCGTGCCTTCCGCTAGAGCCGCTCACACCACGCGCGTGTCTACA
 GTGGACGGGGAGCAGGTGGAGTATGGGCCGCTACAGGCACAGATGACCCCTGGCATCGGTACTGCTC
 ACTGGCCTCCTGGCTGCCCGGGGGAGCCCTGA

Restriction Sites: SgfI-MluI
ACCN: NM_001243876
Insert Size: 1347 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001243876.1</u>
RefSeq Size:	2492 bp
RefSeq ORF:	1347 bp
Locus ID:	56848
Cytogenetics:	19q13.33
Protein Families:	Druggable Genome
Protein Pathways:	Calcium signaling pathway, Fc gamma R-mediated phagocytosis, Metabolic pathways, Sphingolipid metabolism, VEGF signaling pathway
MW:	46.6 kDa
Gene Summary:	<p>This gene encodes one of two sphingosine kinase isozymes that catalyze the phosphorylation of sphingosine into sphingosine 1-phosphate. Sphingosine 1-phosphate mediates many cellular processes including migration, proliferation and apoptosis, and also plays a role in several types of cancer by promoting angiogenesis and tumorigenesis. The encoded protein may play a role in breast cancer proliferation and chemoresistance. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2011]</p> <p>Transcript Variant: This variant (5) lacks an exon in the coding region and initiates translation at a downstream, in-frame start codon, compared to variant 1. The encoded isoform (d) has a shorter N-terminus, compared to isoform a.</p>